

Figure 13-18

Choosing different unit cells for the same lattice. (a) Choice of *C* or *I* unit cells in a monoclinic lattice. (b) Choice of *C* or *P* unit cells in a tetragonal lattice. (c) Choice of an orthorhombic *C* lattice or a hexagonal *P* lattice. [After G. H. Stout and L. M. Jensen, *X-Ray Structure Determination* (New York: Macmillan, 1968).]

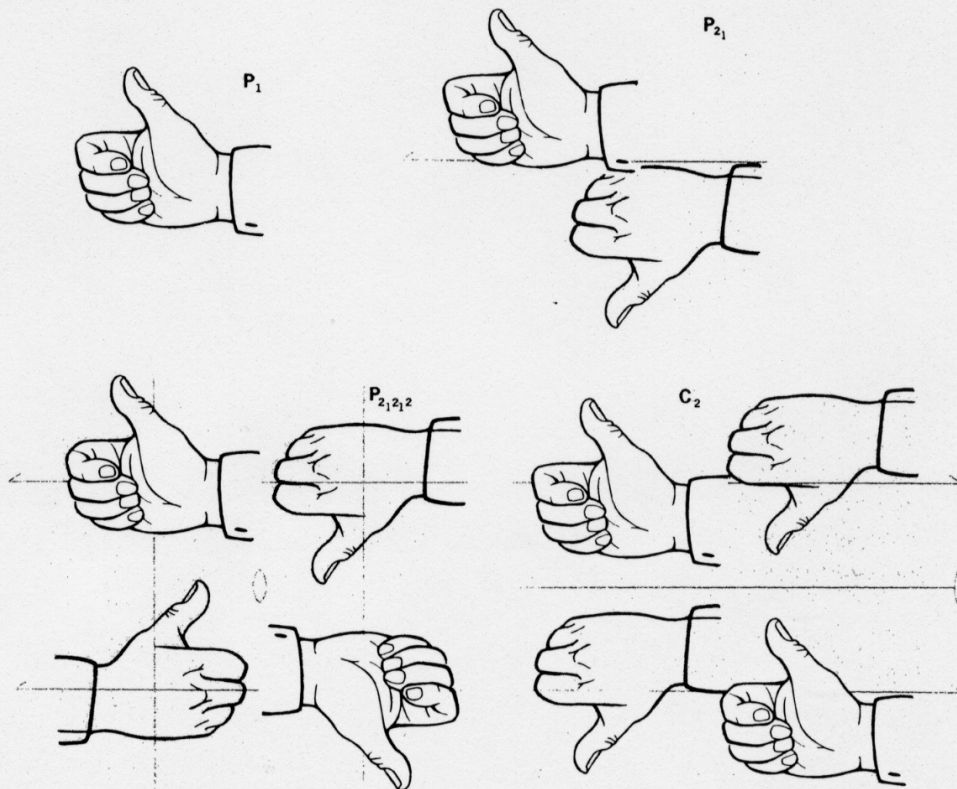


Figure 13-19

A familiar asymmetric unit as it might appear in four different space groups. $P1$ has no motif symmetry; $P2_1$ has a single 2_1 screw axis shown as a half-arrow; $P2_12_12$ has four screw axes (each 2_1) and a C_2 axis perpendicular to the plane of the page; C_2 has two 2_1 screw axes and a C_2 rotational axis shown as the full arrow. [Drawings by Irving Geis.]